**The first concept**

Railway equipment - railway platform - equipment with a stationary based device (aggregate) for installation of catenary support foundations by vibration immersion method.

The main parameters of the technical specification:

|  |  |
| --- | --- |
| **Description of desired main technical requirements and working conditions** | **Parameters** |
| Track gauge | 1520 mm (and 1435 mm) |
| Road profile | from 0‰  to 16‰ |
| In two-way sections without traffic closure on adjacent road | without restrictions |
| On straight roads, curves, stations, platform areas | without restrictions |
| Under the catenary, removing the voltage without dismantling it | up to 5750 mm height from rail head level (RHL) |
| Running speed in the train | not less than 80 km / h |
| Parameters of the submersible elements of the unit: |  |
| the lenght of the catenary support base | not more than 5.0 m |
| the size of the support base at the attachment level (cross-sectional size at grab level) | 0.67 x 0.67 m |
| the weight of the catenary support base | not more than 2.3 t |
| distance from the road axis to the axis of the submersible element (\*there is an oversized space for mounting the support closer than specified) | installation range from \*3.35 m  to 5.95 m |
| Specification of support bases | according to the customer's annex\* |
| Support base immersion cycle time | not more than 25 min. |
| Equipment height (in transport condition) | not more than 5300 mm |
| Equipment width (in transport condition) | not more than 3750 mm |
| The equipment must be designed | metric standard |
| Car coupling (with damping device) | SA-3 (rus.-CA-3) |
| Coupling height from rail head | from 1020 mm  up to 1080 mm |
| Engine power (Nominal) | not less than 95 kW |
| Voltage of electrical equipment | 24V |
| Refueling neck diameter | not less than 100 mm |
| Fuel tank size | At least 450 l |
| Wheelset diameter | min 950 mm |
| Wheel rim thickness | not less than 60 mm |
| Axle load | not more than 23.5 t |
| Battery capacity | not less than 220 Ah |
| 230V, 5A AC socket in the cab | not less than 4 pcs. |

**The second concept**

Road-rail heavy mechanization equipment - an excavator with crawler or wheel drive transported on a railway platform, which is equipped with a device (unit) for the installation of catenary support foundations by the vibration immersion method when working from or leaving the platform.

Preferred main parameters of the technical specification:

|  |  |  |
| --- | --- | --- |
| **Description of desired main technical requirements and working conditions** | | **Parameters** |
| Track gauge | | 1520mm (and 1435mm) |
| Road profile | | from 0‰ to 16‰ |
| Road drive | | crawler or wheel mode |
| Rail drive | | rail mode system |
| Weight of equipment (excavator) | | not more than 35 t |
| Engine power | | not less than 95 kW |
| Hidraulic system productivity | | not less than 400 l / min |
| Under the catenary, removing the voltage without dismantling it | | up to 5750 mm height from rail head level (RHL) |
| Equipment height (in transport condition) | | not more than 5300 mm |
| Equipment width (in transport condition) | | not more than 3750 mm |
| Parameters of the submersible elements of the unit |  | |
| the lenght of the catenary support base | not more than 5.0 m | |
| the size of the support base at the attachment level (cross-sectional size at grab level) | 0.67 x 0.67 m | |
| the weight of the catenary support base | not more than 2.3 t | |
| Distance from the road axis to the axis of the submersible element (\*there is an oversized space for mounting the support closer than specified) | installation range from \*3.35 m  to 5.95 m | |
| Specification of support bases | according to the customer's annex\* | |
| Support base immersion cycle time | not more than 25 min. | |
| Optional: | |  |
| Possibility to replace additional implements | | digging bucket, grab bar, hydraulic grippers, splitting hammer, drill etc.. |

**The third concept**

Heavy mechanization equipment - a crawler excavator transported on a railway platform, which is equipped with a device (unit) for the installation of catenary support foundations by the vibration immersion method when working from or leaving the platform.

Preferred main parameters of the technical specification:

|  |  |  |
| --- | --- | --- |
| **Description of desired main technical requirements and working conditions** | | **Parameters** |
| Weight of equipment (excavator) | | not more than 35 t |
| Engine power | | not less than 95 kW |
| Hidraulic system productivity | | not less than 400 l / min |
| Under the catenary, removing the voltage without dismantling it | | up to 5750 mm height from rail head level (RHL) |
| Equipment height (in transport condition) | | not more than 5300 mm |
| Equipment width (in transport condition) | | not more than 3750 mm |
| Parameters of the submersible elements of the unit |  | |
| the lenght of the catenary support base | not more than 5.0 m | |
| the size of the support base at the attachment level (cross-sectional size at grab level) | 0.67 x 0.67 m | |
| the weight of the catenary support base | not more than 2.3 t | |
| Distance from the road axis to the axis of the submersible element (\*there is an oversized space for mounting the support closer than specified) | installation range from \*3.35 m  to 5.95 m | |
| Specification of support bases | according to the customer's annex\* | |
| Support base immersion cycle time | not more than 25 min. | |
| Optional: |  | |
| Possibility to replace additional implements | | digging bucket, grab bar, hydraulic grippers, splitting hammer, drill etc.. |

**Technical data of support bases**

The main parameters of catenary support bases produced according to the project to be used (operated) in the Republic of Latvia

|  |  |  |
| --- | --- | --- |
| **TYPE** | Technical data | |
| **TSS (rus. - TCC)** | Dimensions of the base at the level of the support attachment | 670 x 670 mm |
| Total length of base | 4000 – 5000 mm |
| Base weight | 1880 – 2180 kg |
|  |  |  |
| **TSA (rus*. -* TCA)** | Dimensions of the base at the level of the support attachment | 670 x 670 mm |
| Total length of base | 4000 – 5000 mm |
| The distance between the bolts of the support fastening | 300 x 500 mm |
| Base weight | 1950 – 2240 kg |
|  |  |  |
| **TSP (rus*.* -TCП )** | Dimensions of the base at the level of the support attachment | 670 x 670 mm |
| Total length of base | 4500 – 5000 mm |
| The distance between the bolts of the support fastening | 400 x 500 mm |
| Base weight | 2110 – 2260 kg |
|  |  |  |
| **TAS (rus*.* -TAC)** | Anchor dimensions at the level of support attachment | 670 x 670 mm |
| Total length of the anchor | 4000 – 5000 mm |
| Anchor weight | 1460 – 1760 kg |

Please provide us with information about the possible technical offer at your disposal to e-mail - ep@ldz.lv